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## HISTORIC AMERICAN ENGINEERING RECORD

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UNIVERSITY HEIGHTS BRIDGE  
Spanning the Harlem River at 207th Street  
and West Fordham Road  
New York City  
New York County  
New York

HAER No. NY-199

### CONTEMPORARY PHOTOGRAPHS

Photographer: (Views B through AD) Peter Nuemann - Views taken on  
November 25, 30 and December 23, 1988

- NY-199-1 (A) Aerial view of bridge showing ramp down to Landing  
Street in the Bronx (East) and railroad yard in Manhattan  
(West). (New York State Department of Transportation;  
Photographer unknown; View taken in approximately 1986)
- NY-199-2 (B) View from the south showing oiler's platform on fender,  
rest piers and parts of masonry abutments. (Nov. 30, 1988)
- NY-199-3 (C) View of swing and approach spans taken from the  
north, with swing-span in closed position. (Nov. 30, 1988)
- NY-199-4 (D) View from north showing swing-span in open position  
(Dec. 23, 1988)
- NY-199-5 (E) View looking south from Bronx (east) bank showing  
masonry approach ramp from Landing (Exterior) Street.  
(Dec. 23, 1988)
- NY-199-6 (F) View looking towards northwest from southern oiler's  
platform, showing swing-span draw, masonry rest pier with  
gatehouse and ornamental railing. (Nov. 25, 1988)

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- NY-199-7 (G) View from oiler's platform showing diagonal top bracing rods, tension members of eye-bars, sway bracing, upper struts, bottom (roadway) chord, decorative railing, and drum girder below. (Nov. 25, 1988)
- NY-199-8 (H) View of Bronx (east) side of swing span looking north, showing masonry rest pier and truss sway bracing. (Nov. 25, 1988)
- NY-199-9 (I) Manhattan portal looking east with vehicular and pedestrian gates in closed position. (Nov. 30, 1988)
- NY-199-10 (J) Close-up view, looking east, of vehicular gates in closed position and portal truss with knee bracing. (Nov. 30, 1988)
- NY-199-11 (K) Detailed view of sign, portal strut, lattice work, and diagonal eye-bars. (Nov. 30, 1988)
- NY-199-12 (L) View towards upper chord of truss showing pin connection, eye-bars, sway bracing, upper struts, posts and diagonal bracing. (Nov. 25, 1988)
- NY-199-13 (M) Close-up of typical pin connection detailing eye-bars as tension members of built-up plates, angles and cross latticing. (Nov. 30, 1988)
- NY-199-14 (N) View of swing truss apex with major sway bracing and bottom latticed strut members, with knee braces below. (Nov. 25, 1988)
- NY-199-15 (O) Close-up view of portal joint pin-connection with star plate, and typical riveted girders and latticed posts. (Nov. 25, 1988)
- NY-199-16 (P) Typical waiting shelter with copper roof, cast-iron posts and hinges at vehicular gate. (Nov. 30, 1988)

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- NY-199-17 (Q) View of masonry gatehouse, safety gates and pedestrian waiting shelter with ripped copper roofing and missing columns. (Nov. 30, 1988)
- NY-199-18 (R) View of decorative railing panels, cast-iron posts, and masonry pedestal for light fixtures. (Dec. 23, 1988)
- NY-199-19 (S) Underside of draw span showing bracing for sidewalk deck and ornamental railing. (Nov. 25, 1988)
- NY-199-20 (T) Underside of swing-span showing bottom truss chords, floor beams and stringers. The draw rests on the end-lift pedestals (end rams supports) at each side of the masonry rest pier. The end-lift drive shaft is supported from the center of the draw. (Nov. 25, 1988)
- NY-199-21 (U) View of end-lift slide on pedestal and threaded shaft with bevel gears. Curved deck joint at underside of roadway deck is seen, as well as submarine electrical cables resting on the masonry pier. (Nov. 30, 1988)
- NY-199-22 (V) Detail view of end-lift drive shaft, threaded shaft and bevel gears. (Nov. 25, 1988)
- NY-199-23 (W) Detail of end-lift vertical slide resting within fixed pedestal. (Nov. 25, 1988)
- NY-199-24 (X) Columns for fifth approach span trusses on Manhattan side (west bank), required for the relocation of the original bridge in 1908. (Nov. 30, 1988)
- NY-199-25 (Y) View of drum girder, with machine-control room above, and drum rollers on center pivot pier. (Nov. 25, 1988)
- NY-199-26 (Z) Detail view of drum girder with rollers below, resting on fixed turntable upon masonry center pier. Swing drive shaft (vertical) is turned by bevel gear of horizontal shaft (protruding through Machine Room wall), which turns pinion

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gear toothed to fixed turntable rack below rollers. (Nov. 25, 1988)

- NY-199-27 (AA) View within machine room showing water tank, tool chest and oil/grease cans used for maintenance. (Nov. 25, 1988)
- NY-199-28 (AB) View of operating machinery shoeing electric motor, clutch drive wheel and hand-painted alignment dial. (Nov. 25, 1988)
- NY-199-29 (AC) View below floor of control room, within turntable, showing electric power wiring to new collector rings. (Nov. 25, 1988)
- NY-199-30 (AD) View within turn table and drum girder space showing tapered rollers, radial rods, electrical wiring and pointer mechanism gears. (Nov. 25, 1988)

## HISTORICAL VIEWS

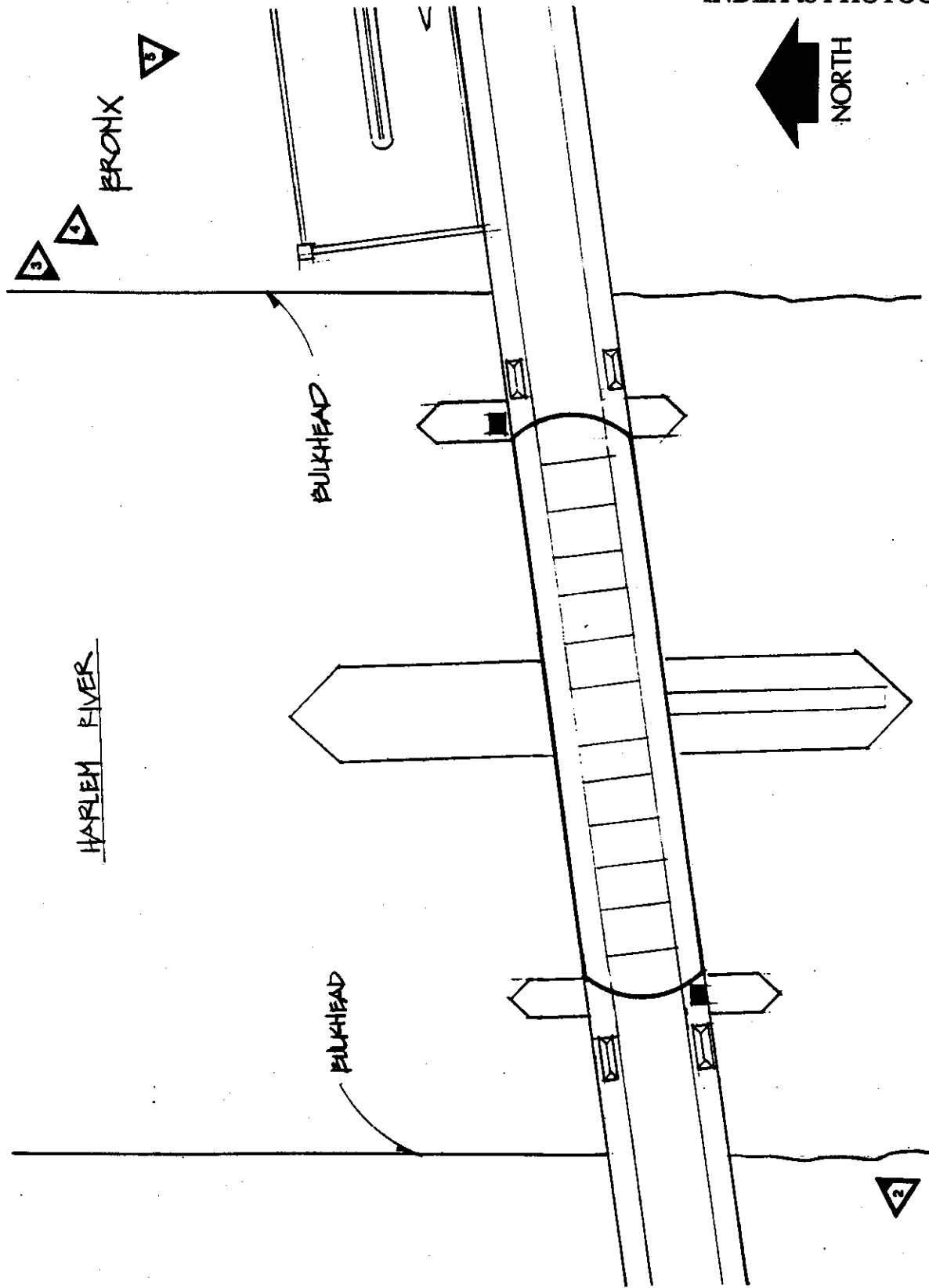
All original photographs are located in the archives at New York City Department of Transportation office at 300 West 206th St., Manhattan, New York, N.Y.

- NY-199-31 Floating original Ship Canal draw (in background) to University Heights location. New Ship Canal draw in foreground. June 1906 photograph.
- NY-199-32 Moving draw span from Ship Canal to University Heights Bridge. June 14, 1906 artist rendering

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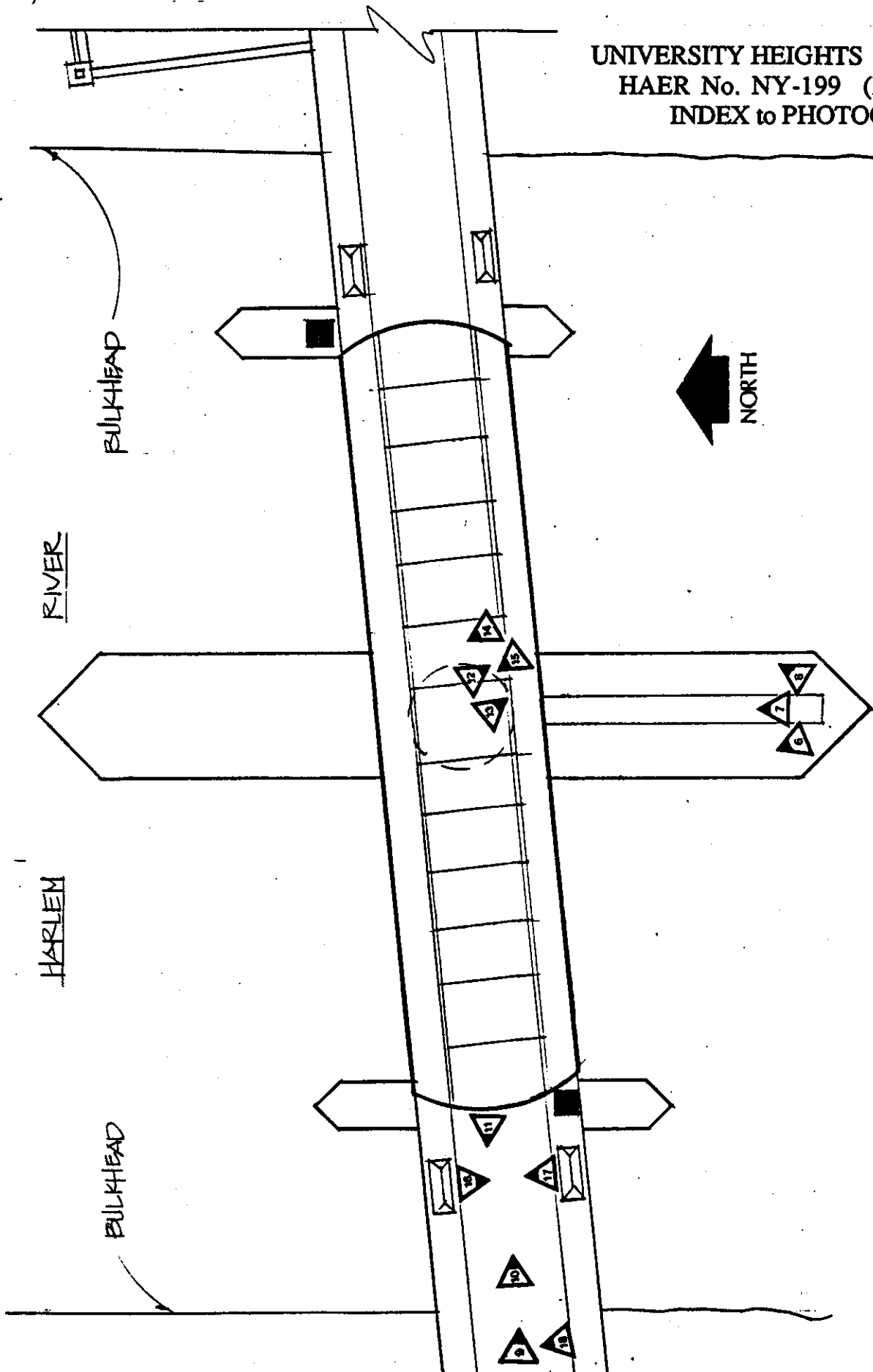
- NY-199-33 University Heights Bridge over Harlem River. January 8, 1908 photograph.
- NY-199-34 University Heights Bridge looking Southwest, showing ramp down to Exterior Street (Landing Road). January 8, 1908 photograph
- NY-199-35 (#1315) University Heights Bridge looking West, showing railroad station at south of Bronx approach. Date unknown
- NY-199-36 (#9337) View of the northerly end of center fender from the southeast. December 4, 1924 photograph
- NY-199-37 (#9868) Reconstruction of roadway; view looking east. South half of roadway about completed. Electrical power line supports for trolleys in foreground. October 26, 1925 photograph
- NY-199-38 (#9945) Reconstruction of roadway; view looking west on Swing Span, showing new concrete foundation and new design of curb angles and covers over bottom chord. December 15, 1925 photograph
- NY-199-39 (#9944) Reconstruction of roadway; view of Bronx Approach looking east from swing span, showing glazed panels at pedestrian waiting shelters. December 15, 1925 photograph
- NY-199-40 (#9942) Reconstruction of roadway; view looking west from Swing Span, showing concrete foundation, north side of Manhattan Approach. December, 1925 photograph.
- NY-199-41 (#9943) Reconstruction of roadway; view of swing span looking northwest from Bronx Approach, showing new apron under construction - concrete foundation partly built. Note trolley in background and broken asphalt in roadway bed. December 15, 1925 photograph.

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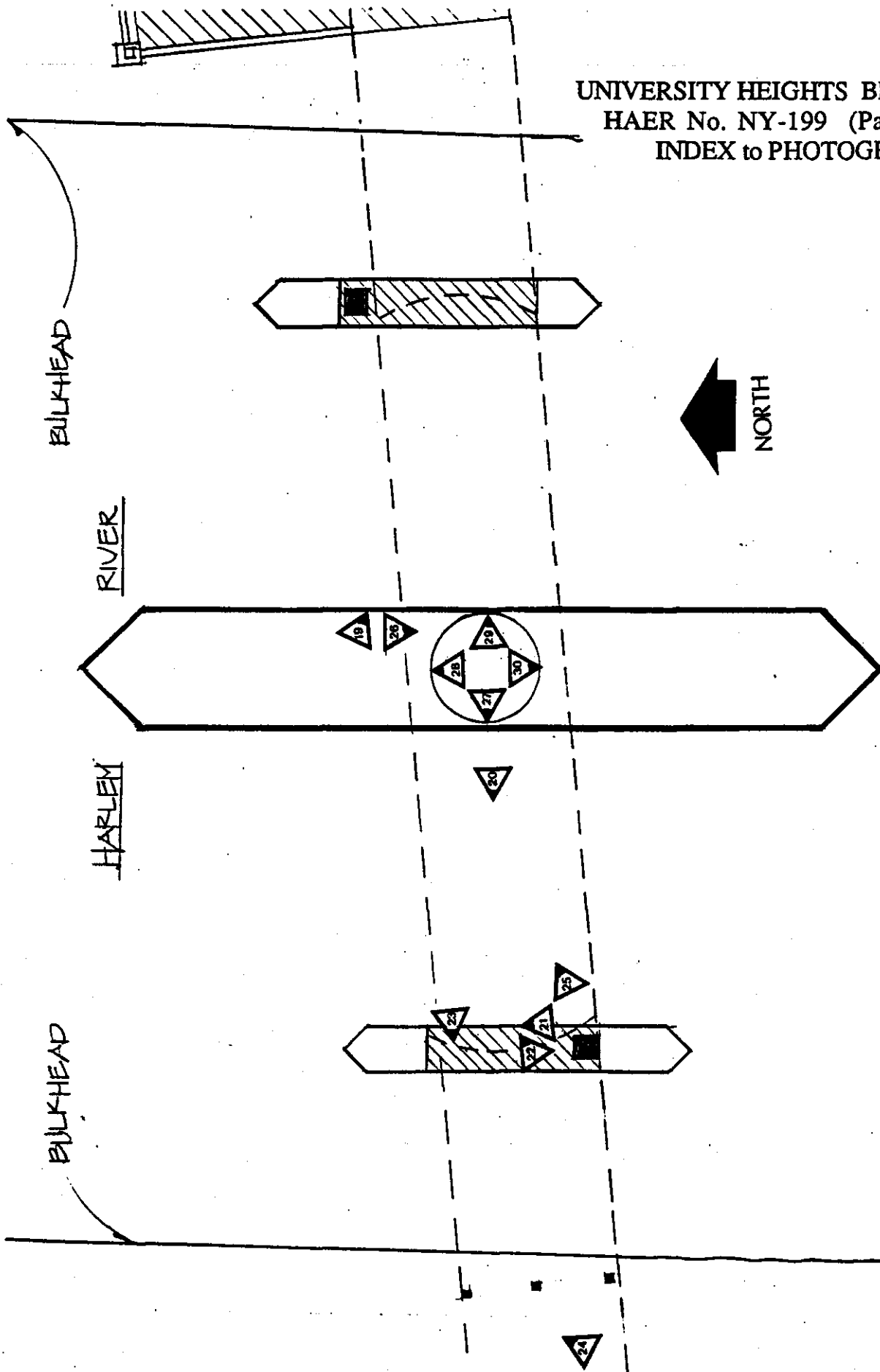
KEY DRAWING to CONTEMPORARY PHOTOGRAPHS  
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